

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4650403

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the USSN 13/064,689 CONTAINING A TYPOGRAPHICAL ERROR TO USSN 13/064,698 previously recorded on Reel 028982 Frame 0429. Assignor(s) hereby confirms the ASSIGNMENT OF ASSIGNORS INTEREST.

CONVEYING PARTY DATA

Name	Execution Date
SHOWA DENKO K.K.	09/03/2012

RECEIVING PARTY DATA

Name:	KEIHIN THERMAL TECHNOLOGY CORPORATION
Street Address:	480, INUZUKA, 1-CHOME
City:	OYAMA-SHI, TOCHIGI
State/Country:	JAPAN
Postal Code:	323-8678

PROPERTY NUMBERS Total: 99

Property Type	Number
Application Number:	12310119
Application Number:	12045288
Application Number:	12153993
Application Number:	12216184
Application Number:	12314763
Application Number:	12458477
Application Number:	12585478
Application Number:	12588157
Application Number:	12736875
Application Number:	11670146
Application Number:	11668697
Application Number:	11616130
Application Number:	12656971
Application Number:	11514084
Application Number:	11909223
Application Number:	12801821
Application Number:	11813561
Application Number:	11722962

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Property Type	Number
Application Number:	11305294
Application Number:	11722044
Application Number:	11720372
Application Number:	29376185
Application Number:	11571831
Application Number:	11571938
Application Number:	11631384
Application Number:	11571364
Application Number:	12926930
Application Number:	10587396
Application Number:	10590202
Application Number:	11578557
Application Number:	10586594
Application Number:	10583375
Application Number:	12929620
Application Number:	10579470
Application Number:	10577330
Application Number:	10566651
Application Number:	10563151
Application Number:	13064097
Application Number:	10529632
Application Number:	10516933
Application Number:	13064699
Application Number:	10486209
Application Number:	10355249
Application Number:	10480649
Application Number:	10480259
Application Number:	13064697
Application Number:	13064698
Application Number:	10479860
Application Number:	10472484
Application Number:	10469383
Application Number:	10466779
Application Number:	10466833
Application Number:	10451150
Application Number:	10333923
Application Number:	10333925
Application Number:	09886605

Property Type	Number
Application Number:	09862061
Application Number:	09794014
Application Number:	09716397
Application Number:	09672737
Application Number:	09544098
Application Number:	09419519
Application Number:	09301329
Application Number:	09158067
Application Number:	09087008
Application Number:	08958770
Application Number:	08897725
Application Number:	08802266
Application Number:	08774216
Application Number:	08746921
Application Number:	08675154
Application Number:	08665310
Application Number:	08618090
Application Number:	08544310
Application Number:	08505494
Application Number:	08505568
Application Number:	08341428
Application Number:	08283504
Application Number:	08162979
Application Number:	08133962
Application Number:	08123856
Application Number:	08118891
Application Number:	08073586
Application Number:	08071566
Application Number:	08056397
Application Number:	13067399
Application Number:	13214298
Application Number:	10432439
Application Number:	13291440
Application Number:	12998784
Application Number:	13280574
Application Number:	11964412
Application Number:	12942085
Application Number:	11165040

Property Type	Number
Application Number:	11154562
Application Number:	11368686
Application Number:	10082509
Application Number:	10318889
Application Number:	13390749

CORRESPONDENCE DATA

Fax Number: (617)227-4420
Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 2024787375
Email: akiko.angelov@lockelord.com
Correspondent Name: LOCKE LORD LLP
Address Line 1: P.O. BOX 55874
Address Line 4: BOSTON, MASSACHUSETTS 02205

ATTORNEY DOCKET NUMBER:	1451551.162US2
NAME OF SUBMITTER:	JAMES E. ARMSTRONG, IV
SIGNATURE:	/James E. Armstrong, IV/
DATE SIGNED:	10/20/2017

Total Attachments: 9
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PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Showa Denko K.K.	09/03/2012
RECEIVING PARTY DATA	
Name:	Keihin Thermal Technology Corporation
Street Address:	480, Inuzuka, 1-chome
City:	Oyama-shi, Tochigi
State/Country:	JAPAN
Postal Code:	323-8678
PROPERTY NUMBERS Total: 99	
Property Type	Number
Application Number:	12310119
Application Number:	12045288
Application Number:	12153993
Application Number:	12216184
Application Number:	12314763
Application Number:	12458477
Application Number:	12585478
Application Number:	12588157
Application Number:	12736875
Application Number:	11670146
Application Number:	11668697
Application Number:	11616130
Application Number:	12656971
Application Number:	11514084
Application Number:	11909223

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PATENT
REEL: 028982 FRAME: 0429PATENT
REEL: 044244 FRAME: 0528

Application Number:	12801821
Application Number:	11813561
Application Number:	11722962
Application Number:	11305294
Application Number:	11722044
Application Number:	11720372
Application Number:	29376185
Application Number:	11571831
Application Number:	11571938
Application Number:	11631384
Application Number:	11571364
Application Number:	12926930
Application Number:	10587396
Application Number:	10590202
Application Number:	11578557
Application Number:	10586594
Application Number:	10583375
Application Number:	12929620
Application Number:	10579470
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Application Number:	10563151
Application Number:	13064097
Application Number:	10529632
Application Number:	10516933
Application Number:	13064699
Application Number:	10486209
Application Number:	10355249
Application Number:	10480649
Application Number:	10480259
Application Number:	13064697
Application Number:	13064689
Application Number:	10479860
Application Number:	10472484
Application Number:	10469383

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 13064698 → correct USSN ✓

PATENT
 REEL: 028982 FRAME: 0430

PATENT
 REEL: 044244 FRAME: 0529

	10466779
Application Number:	10466833
Application Number:	10451150
Application Number:	10333923
Application Number:	10333925
Application Number:	09886605
Application Number:	09862061
Application Number:	09794014
Application Number:	09716397
Application Number:	09672737
Application Number:	09544098
Application Number:	09419519
Application Number:	09301329
Application Number:	09158067
Application Number:	09087008
Application Number:	08958770
Application Number:	08897725
Application Number:	08802266
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Application Number:	08746921
Application Number:	08675154
Application Number:	08665310
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Application Number:	08544310
Application Number:	08505494
Application Number:	08505568
Application Number:	08341428
Application Number:	08283504
Application Number:	08162979
Application Number:	08133962
Application Number:	08123856
Application Number:	08118891
Application Number:	08073586
Application Number:	08071566
Application Number:	08056397

PATENT

REEL: 028982 FRAME: 0431

PATENT

REEL: 044244 FRAME: 0530

	13067399
Application Number:	13214298
Application Number:	10432439
Application Number:	13291440
Application Number:	12998784
Application Number:	13280574
Application Number:	11964412
Application Number:	12942085
Application Number:	11165040
Application Number:	11154562
Application Number:	11368686
Application Number:	10082509
Application Number:	10318889
Application Number:	13390749

CORRESPONDENCE DATA

Fax Number: 6172274420

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 2024787375

Email: jarmstrong@edwardswildman.com

Correspondent Name: Edwards Wildman Palmer LLP

Address Line 1: P.O. Box 55874

Address Line 4: Boston, MASSACHUSETTS 02205

ATTORNEY DOCKET NUMBER:	83433(302960)
NAME OF SUBMITTER:	James E. Armstrong IV

Total Attachments: 3

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PATENT
REEL: 028982 FRAME: 0432

PATENT
REEL: 044244 FRAME: 0531

ASSIGNMENT

WHEREAS, Showa Denko K.K., a corporation organized under and pursuant to the laws of Japan having its principal place of business at 13-9, Shiba Daimon 1-chome, Minato-ku, Tokyo 105-8518 JAPAN (hereinafter referred to as Assignor), is the sole and exclusive owner, by assignment, of the patents and patent applications listed in attached Schedule A; and

WHEREAS, Kelhin Thermal Technology Corporation, a corporation organized under and pursuant to the laws of Japan having its principal place of business at 480, Inuzuka, 1-chome, Oyama-shi, Tochigi 323-8678, Japan (hereinafter referred to as Assignee), is desirous of acquiring the right, title and interest in, to and under the patents and patent applications listed in attached Schedule A and the inventions covered thereby;

NOW, THEREFORE, in consideration of and in exchange for the sum of One Dollar (\$1.00) and other good and valuable consideration, receipt of which is hereby acknowledged, said Assignor has sold, assigned, transferred and set over, and does hereby sell, assign, transfer and set over to the said Assignee, the entire right, title and interest for the United States of America in and to said patents and applications for all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefore in the United States of America on the attached *Schedule A*, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on the attached *Schedule A* to said assignee herein, as assignee of the entire interest therein; and

the undersigned for itself and its legal representatives, heirs and assigns does hereby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, continuation-in-part, reissue and other applications for Letters Patent and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said patents and patent applications listed on the attached *Schedule A* whenever requested, to testify in any interferences or other legal proceedings in which said applications or patents may become involved, to sign all

lawful papers, make all rightful oaths, and do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said patents and patent applications listed on the attached *Schedule A* in the United States of America, the expenses incident to said patents and patent applications listed on the attached *Schedule A* to be borne and paid by said assignee.

Date: September 3, 2012

Signature: _____

Hideo YASHIMA

Title: Corporate Fellow, General Manager,
Intellectual Property Office

Schedule A

12/310119	10/563151	
12/045288	13/064097	08/618090
12/153993	10/529632	
12/216184	10/516933	08/544310
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11/571938	09/672737	11/964412
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10/577330	08/675154	
10/566651	08/665310	

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The correct VSSN
is 13/064, 698

ASSIGNMENT

WHEREAS, Showa Denko K.K., a corporation organized under and pursuant to the laws of Japan having its principal place of business at 13-9, Shiba Daimon 1-chome, Minato-ku, Tokyo 105-8518 JAPAN (hereinafter referred to as Assignor), is the sole and exclusive owner, by assignment, of the Letters Patent listed in Schedule A; and

WHEREAS, Keihin Thermal Technology Corporation, a corporation organized under and pursuant to the laws of Japan having its principal place of business at 480, Inuzuka, 1-chome, Oyama-shi, Tochigi 323-8678, Japan (hereinafter referred to as Assignee), is desirous of acquiring the right, title and interest in, to and under said Letters Patent and the invention covered thereby;

NOW, THEREFORE, in consideration of and in exchange for the sum of One Dollar (\$1.00) and other good and valuable consideration, receipt of which is hereby acknowledged, the said Assignor has sold, assigned, transferred and set over, and does hereby sell, assign, transfer and set over to the said Assignee, the entire right, title and interest for the United States of America and all other countries in and to said Letters Patent listed on Schedule A The same to be held and enjoyed by the same Assignee, for its own use and enjoyment of its successors, assigns and other legal representatives, to the end of the term or terms for which Letters Patent of the United States and all other countries listed on the attached Schedule A are granted or reissued or reexamined as fully and entirely as the same would have been held and enjoyed by the said Assignor, if this assignment and sale had not been made, together with all claims for damages by reason of past infringement of Letters Patent listed on Schedule A, with the right to sue for, and collect the same for its own use and behoof, and for the use and behoof of its successors, assigns, or other legal representatives.

13/064,698

SCHEDULE A

Patent Number	Issue Date of Patent:	Inventor	Title	Ctry
8,708,037	04-29-2014	Kazumi Tokizaki et al.	CONDENSER	US

Assignor: **Showa Denko K.K.**

By: Tetsu Moriki

Name Tetsu MORIKI

Title General Manager of IP Department

Date: December 27, 2016